

WHAT IS CLAIMED IS:

1. A projection type display apparatus for enlarging and projecting an image onto a projected plane, comprising:

a projection optical unit for projecting image light onto the projected plane,

an optical device for dividing light emitted from a light source into image light that travels to the projection optical unit and unnecessary light that travels outside the projection optical unit,

a holding member for holding the projection optical unit,

and a light receiving member for receiving the unnecessary light,

wherein the light receiving member is provided as a member independent of the holding member.

2. The apparatus according to Claim 1, the light receiving member is a light absorbing member.

3. The projection type display apparatus according to Claim 2, wherein the light absorbing member has a color that absorbs light.

4. The projection type display apparatus according to Claim 1, wherein the light receiving member is disposed not in direct contact with the holding member.

5. The projection type display apparatus according to

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Claim 1, wherein the light receiving member is provided with a heat-releasing member.

6. The projection type display apparatus according to Claim 5, wherein the heat releasing member is connected to a member having a greater heat capacity than the heat-releasing member.

7. The projection type display apparatus according to Claim 1, wherein a heat insulating material is disposed between the light receiving member and the holding member.

8. The projection type display apparatus according to Claim 1, wherein the light receiving member is disposed so that light reflected by the light receiving member does not strike the optical device or the projection optical unit.

9. The projection type display apparatus according to Claim 1, wherein the optical device is a digital micro device that drives a plurality of micro reflecting surfaces and divides light.

10. The projection type display apparatus according to Claim 1, wherein the projection optical unit forms an image formation system by use of reflecting optical elements.

11. The projection type display apparatus according to Claim 1, wherein the light receiving member has at least one of the light absorbing properties and light reflecting properties.

12. An image display system comprising:

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the projection type display apparatus according to Claim 1,

an image information input apparatus for inputting image information to the projection type display apparatus.

13. A projection type display apparatus for enlarging and projecting an image onto a projected plane, comprising:

a projection optical unit for projecting image light onto the projected plane,

an optical device for dividing light emitted from a light source into image light that travels to the projection optical unit and unnecessary light that travels outside the projection optical unit,

and a holding member for holding the projection optical unit,

wherein the holding member has such a shape so as not to directly receive, at least, a part of the unnecessary light.

14. The projection type display apparatus according to Claim 13, wherein the optical device is a digital micro device that drives a plurality of micro reflecting surfaces and divides light.

15. The projection type display apparatus according to Claim 13, further comprising a light receiving member for receiving the unnecessary light.

16. The projection type display apparatus according to

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Claim 15, wherein the light receiving member is a light absorbing member.

17. The projection type display apparatus according to Claim 16, wherein the light absorbing member has a color that absorbs light.

18. The projection type display apparatus according to Claim 15, wherein the light receiving member is disposed not in direct contact with the holding member.

19. The projection type display apparatus according to Claim 15, wherein the light receiving member is provided with a heat-releasing member.

20. The projection type display apparatus according to Claim 19, wherein the heat releasing member is connected to a member having a greater heat capacity than the heat-releasing member.

21. The projection type display apparatus according to Claim 15, wherein a heat insulating material is disposed between the light receiving member and the holding member.

22. The projection type display apparatus according to Claim 15, wherein the light receiving member is disposed so that light reflected by the light receiving member does not strike the optical device or the projection optical unit.

23. The projection type display apparatus according to Claim 15, wherein the optical device is a digital micro device that drives a plurality of micro reflecting surfaces

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and divides light.

24 The projection type display apparatus according to Claim 15, wherein the projection optical unit forms an image formation system by use of reflecting optical elements.

25 An image display system comprising:

the projection type display apparatus according to
Claim 13,

an image information input apparatus for inputting image information to the projection type display apparatus.